

L Number	Hits	Search Text	DB	Time stamp
1	734520	ring\$	USPAT	2004/01/19 17:46
2	718173	ring\$2	USPAT	2004/01/19 17:46
3	240389	rings	USPAT	2004/01/19 17:46
4	42044	370/\$.ccls. or 398/\$.ccls.	USPAT	2004/01/19 17:47
5	733	protect\$3 adj (path\$2 or link\$2)	USPAT	2004/01/19 18:18
6	150	spare adj (path\$2 or link\$2)	USPAT	2004/01/19 17:48
7	89	rings and (370/\$.ccls. or 398/\$.ccls.) and (protect\$3 adj (path\$2 or link\$2))	USPAT	2004/01/19 17:49
8	82	(alternat\$3 adj (path\$2 or link\$2)) with (between adj3 nodes)	USPAT	2004/01/19 18:58
9	59	(370/\$.ccls. or 398/\$.ccls.) and ((alternat\$3 adj (path\$2 or link\$2)) with (between adj3 nodes))	USPAT	2004/01/19 18:14
10	55	((370/\$.ccls. or 398/\$.ccls.) and ((alternat\$3 adj (path\$2 or link\$2)) with (between adj3 nodes))) not (rings and (370/\$.ccls. or 398/\$.ccls.) and (protect\$3 adj (path\$2 or link\$2)))	USPAT	2004/01/19 18:15
11	1	((370/\$.ccls. or 398/\$.ccls.) and ((alternat\$3 adj (path\$2 or link\$2)) with (between adj3 nodes))) not (rings and (370/\$.ccls. or 398/\$.ccls.) and (protect\$3 adj (path\$2 or link\$2))) and (protect\$3 adj (path\$2 or link\$2))	USPAT	2004/01/19 18:16
12	18	protect\$3 and (((370/\$.ccls. or 398/\$.ccls.) and ((alternat\$3 adj (path\$2 or link\$2)) with (between adj3 nodes))) not (rings and (370/\$.ccls. or 398/\$.ccls.) and (protect\$3 adj (path\$2 or link\$2))))	USPAT	2004/01/19 18:23
13	6	((alternat\$3 adj (path\$2 or link\$2)) with (between adj3 nodes)) and (protect\$3 adj (path\$2 or link\$2))	USPAT; US-PGPUB	2004/01/19 18:30
14	1	5982517.pn. and "3"	USPAT; US-PGPUB	2004/01/19 18:42
15	1	6154296.pn. and "30"	USPAT; US-PGPUB	2004/01/19 18:37
16	1	6046833.pn. and "80"	USPAT; US-PGPUB	2004/01/19 18:56
17	1	5982517.pn. and "1"	USPAT; US-PGPUB	2004/01/19 18:47
18	1	5982517.pn. and "3"	USPAT; US-PGPUB	2004/01/19 18:47
19	0	((alternat\$3 adj (path\$2 or link\$2)) with (between adj3 nodes)) and (protect\$3 adj (path\$2 or link\$2))	EPO; JPO	2004/01/19 18:57
20	67	(protect\$3 adj (path\$2 or link\$2)) with (between adj3 nodes)	USPAT; US-PGPUB; EPO; JPO	2004/01/19 18:58

PAT-NO: JP362127806A

DOCUMENT-IDENTIFIER: JP 62127806 A

TITLE: OPTICAL MULTIPLEXER AND DEMULTIPLEXER  
FOR SINGLE MODE

PUBN-DATE: June 10, 1987

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APPL-NO: JP60268937

APPL-DATE: November 29, 1985

INT-CL (IPC): G02B006/28, G02B006/16

US-CL-CURRENT: 385/126

ABSTRACT:

PURPOSE: To obtain an optical multiplexer and demultiplexer whose productivity is high and whose loss is small, by constituting it with a multicore fiber having plural single mode cores.

CONSTITUTION: A multicore fiber 10 is provided with two pieces of single mode cores 11, 12 whose propagation constants are equal, as a wave director.  
When using such a multicore fiber 10 as an optical demultiplexer, it will

suffice that a coupling constant  $C$  of both the cores 11, 12 and length of the multicore fiber 10 are set so that light of a wavelength  $\lambda_2$  is emitted from one core 11, and light of a wavelength  $\lambda_2$  is emitted from the other core 12, when light beams of wavelengths  $\lambda_1$ ,  $\lambda_2$  have been made incident on one core 11. Also, when using said multicore fiber as an optical multiplexer, it will suffice that light of the wavelength  $\lambda_1$  and light of the wavelength  $\lambda_2$  are made incident from one core 11 and the other core 12, respectively, and the light beams of the wavelengths  $\lambda_1$ ,  $\lambda_2$ , which have been made incident in this way are emitted from one core 11.

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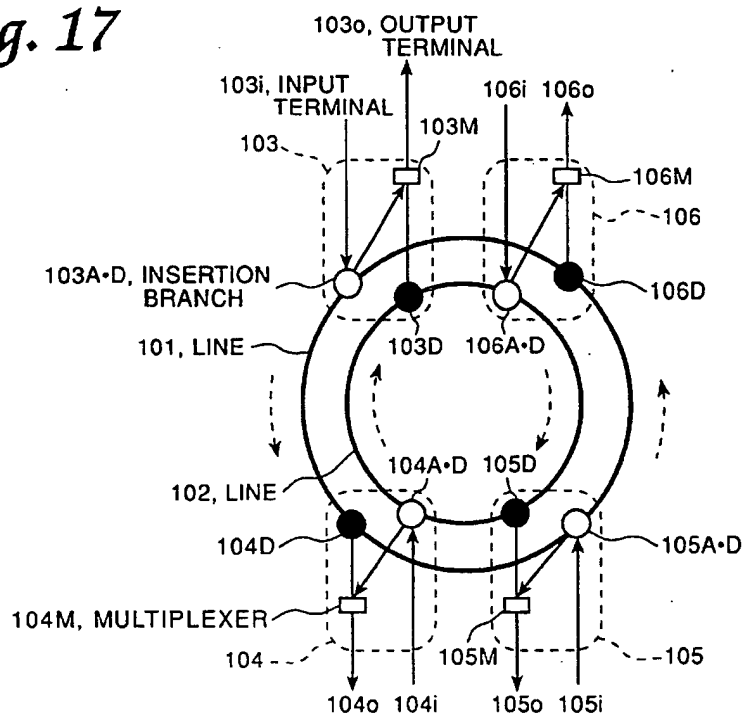
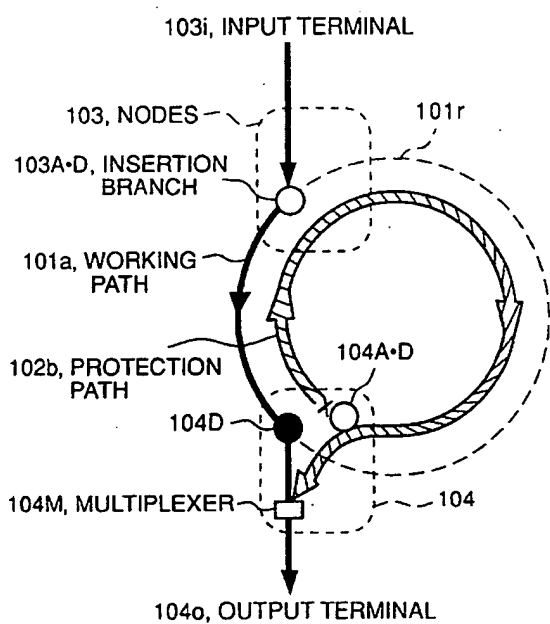
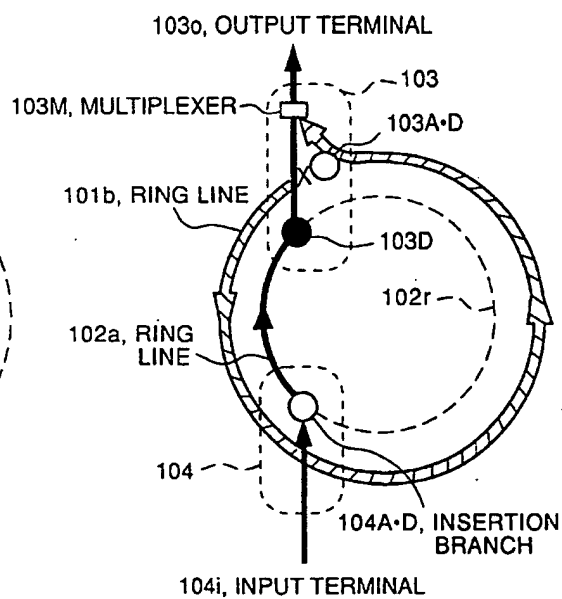
*Fig. 17**Fig. 18**Fig. 19*

Fig. 1

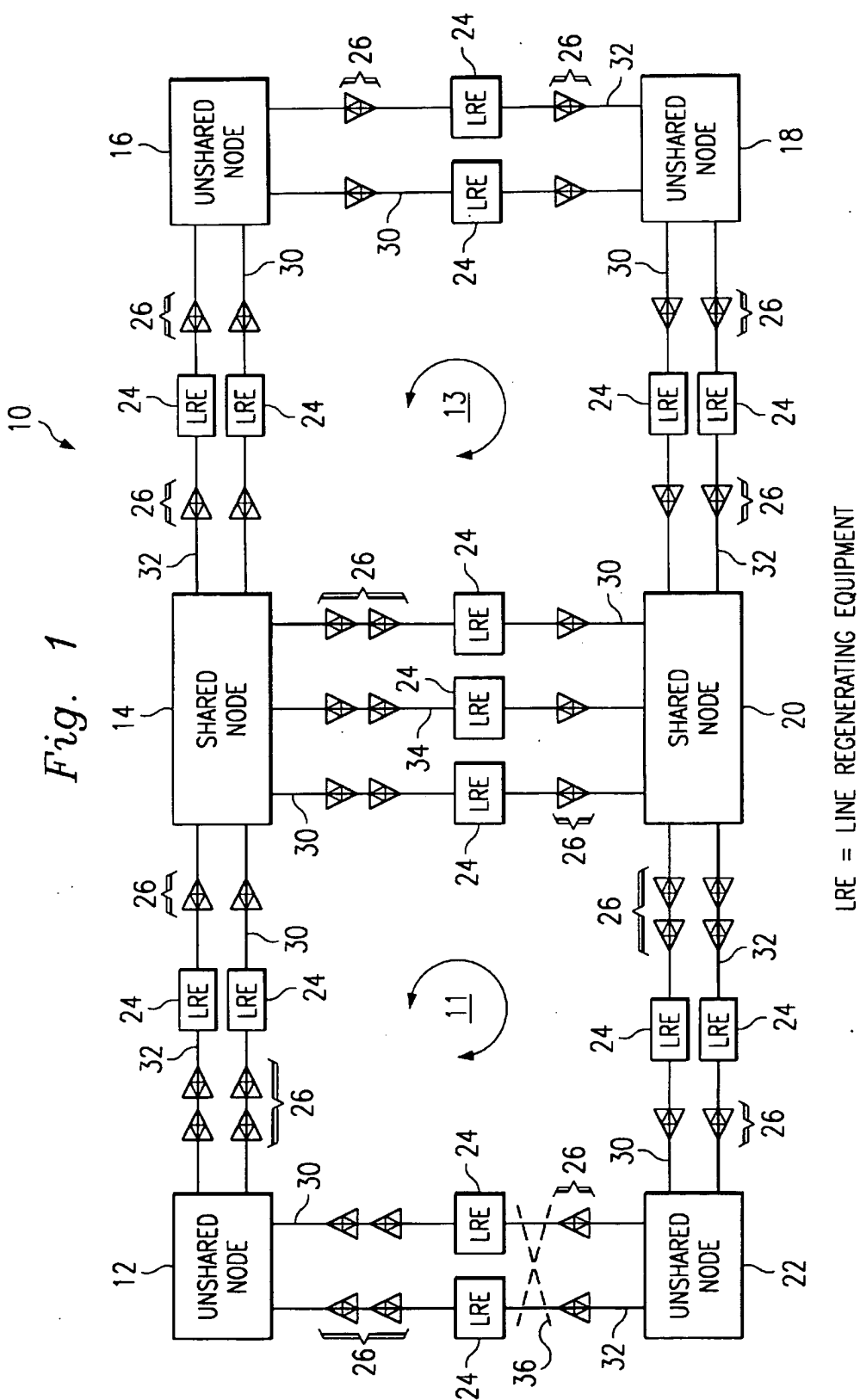
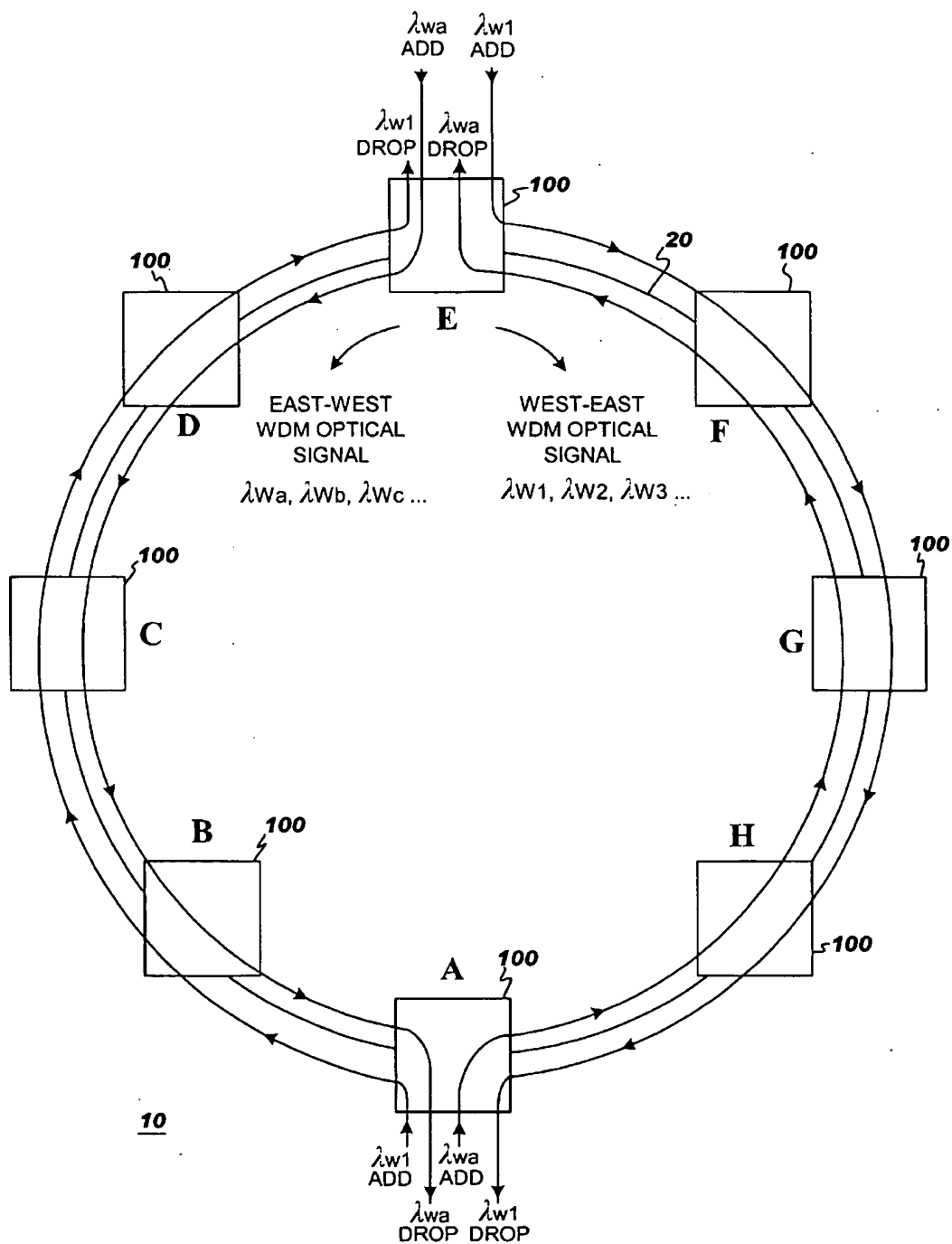


FIG. 1C



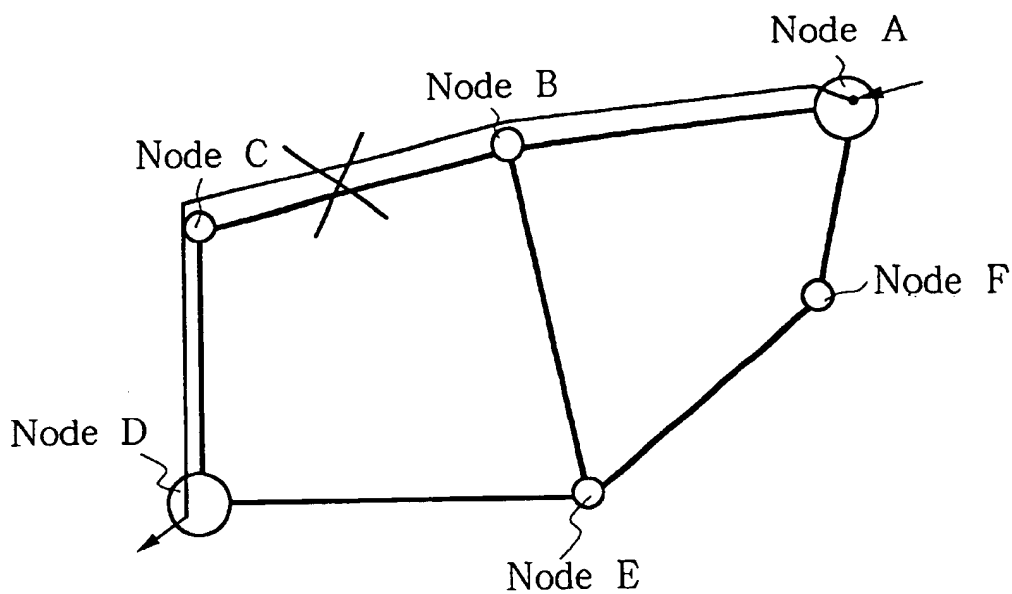


FIG. 7

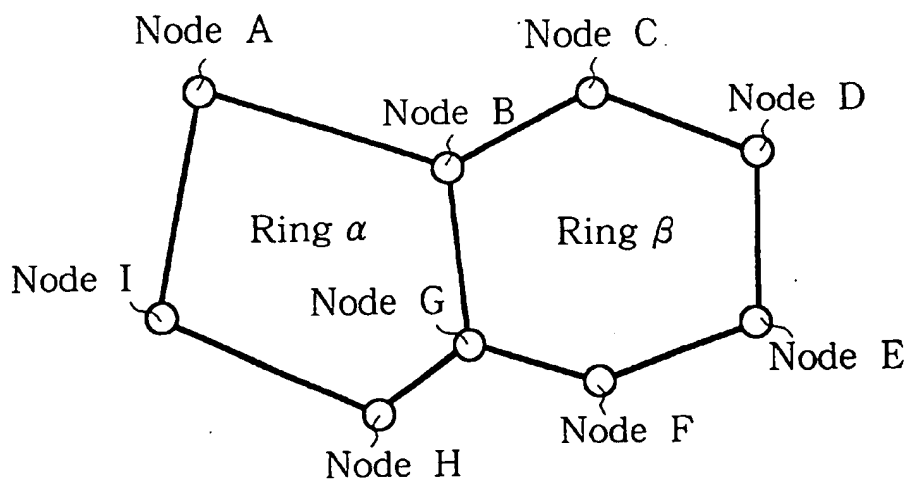


FIG. 8

